

TECHNICAL DATA SHEET (TDS)

| Product Name | LIME SEED OIL |
|----------------|-------------------------------------|
| Botanical Name | Citrus aurantifolia |
| CAS # | - |
| EINECS # | - |
| INCI Name | Citrus aurantifolia (Lime) Seed Oil |

| Part Used | Seeds |
|-------------------|-----------------------|
| Extraction Method | Cold Pressed |
| Quality | 100% Pure and Natural |

| <u>PROPERTIES</u> | SPECIFICATIONS | |
|--------------------------------|---|--|
| Appearance | Pale yellow to golden colored liquid | |
| Odour | Characteristic mild aroma | |
| Refractive Index | 1.460 - 1.480 @ 20°C | |
| Specific Gravity (g/mL) | 0.910 - 0.930 @ 20°C | |
| Saponification Value (mgKOH/g) | 190 - 200 | |
| Peroxide Value (meqO2/kg) | Less than 5.0 | |
| Iodine Value (g I2/100g) | 105 - 120 | |
| Acid Value (mgKOH/g) | Less than 1.0 | |
| Solubility | Soluble in cosmetic esters and fixed oils; Insoluble in water | |

FREE ACID COMPOSITION

| FATTY ACID | C-CHAIN | SPECIFICATIONS (%) |
|----------------------|-------------|--------------------|
| Palmitic Acid | C16:0 | 12.00 – 25.00 |
| Stearic Acid | C18:0 | 2.00 - 6.00 |
| Oleic Acid | C18:1 (n-9) | 26.00 – 38.00 |
| Linoleic Acid | C18:2 (n-6) | 32.00 - 44.00 |
| Alpha-Linolenic Acid | C18:3 (n-3) | 4.00 – 9.00 |



| MICROBIAL ANALYSIS | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> |
|---------------------------------------|-----------------------|------------------|
| Aerobic Mesophilic Bacterial Count | < 100 CFU/g | ISO 21149 |
| Yeast and Mould | < 10 CFU/g | ISO 16212 |
| Candida albicans | ABSENT / 1g | ISO 18416 |
| Escherichia coli | ABSENT / 1g | ISO 21150 |
| Pseudomonas aeruginosa | ABSENT / 1g | ISO 22717 |
| Staphylococcus aureus | ABSENT / 1g | ISO 22718 |

| HEAVY METAL TESTS | <u>SPECIFICATIONS</u> | <u>STANDARDS</u> |
|----------------------------|-----------------------|------------------|
| Lead: Pb (mg/kg or ppm) | < 10 ppm | na |
| Arsenic: As (mg/kg or ppm) | < 2 ppm | na |
| Mercury: Hg (mg/kg or ppm) | < 1 ppm | na |

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